PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

P 67314		FOR FURTHER ACTION	See Form PCT/IPEA/416				
	ional application No. /EP2004/012554	International filing date (day/month/yea 05.11.2004	r) Priority date (day/month/year) 07.11.2003				
A61	International Patent Classification (IPC) or national classification and IPC A61 K31/00, A61 K31/47, A61 K31/519, G01 N33/50, A61 K31/405, A61 K31/192, A61 K31/517, A61 P9/00						
Applicant ERNST-MORITZ-ARNDT- UNIVERSITÄT							
1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2.	This REPORT consists of a total of _	sheets, in	cluding this cover sheet.				
3.	This report is also accompanied by Al	NNEXES, comprising:					
	a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:				
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
			ity considers contain an amendment that goes beyond licated in item 4 of Box No. I and the Supplemental				
	b. (sent to the International I	Bureau only) a total of (indicate type and	number of electronic carrier(s))				
			, containing a sequence listing and/or tables				
	related thereto, in computer Section 802 of the Administ	•	Supplemental Box Relating to Sequence Listing (see				
4.	This report contains indications relation	ng to the following items:					
	Box No. I Basis of the	report					
	Box No. II Priority						
	Box No. III Non-establis	shment of opinion with regard to novelty,	inventive step and industrial applicability				
	Box No. IV Lack of unit	y of invention					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI Certain documents cited						
	Box No. VII Certain defe	cts in the international application					
	Box No. VIII Certain obse	ervations on the international application					
Date of	submission of the demand	Date of completion	on of this report				
Name a	nd mailing address of the IPEA/EP	Authorized office	r				
Facsimi	la Na	Talanhana N					
racsimi.	IC IVO.	Telephone No.					

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY PCT/EP2004/012554 Box No. I Basis of the report With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language ___ which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/or 55.3) With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the international application as originally filed/furnished the description: as originally filed/furnished received by this Authority on received by this Authority on the claims: as originally filed/furnished nos. as amended (together with any statement) under Article 19 31.10.2005 with letter received by this Authority on of 31.10.2005 received by this Authority on the drawings: as originally filed/furnished sheets received by this Authority on sheets* received by this Authority on sheets* a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages _____ the sequence listing (specify): any table(s) related to sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages

the claims, nos. 1

the drawings, sheets/figs

the sequence listing (specify): any table(s) related to sequence listing (specify): If item 4 applies, some or all of those sheets may be marked "superseded."

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International application No.
PCT/EP2004/012554

Box No. II	I Non-establishment of opinion	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
	the entire international application				
\boxtimes	claims Nos. 4-10				
because	e:				
\boxtimes	the said international application, or the said claims Nos. <u>4-6</u> , 9, 10 relate to the following subject matter which does not require an international preliminary examination (<i>specify</i>):				
	See Supplemental H	Зох			
	the description, claims or drawings (inca are so unclear that no meaningful opinions See Supplemental I		8		
	the claims, or said claims Nos.		are so inadequately supported		
	by the description that no meaningful opinion could be formed.				
Ш	no international search report has been	established for said claims Nos.			
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in An Instructions in that:		in Annex C of the Administrative			
	the written form	has not been furnished			
		does not comply with the standard			
	the computer readable form	has not been furnished			
	the computer readable form	does not comply with the standard			
			form only, do not comply with the		
	See Supplemental Box for further detail	Annex C-bis of the Administrative Instructions.			

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventicitations and explanations supporting such statement		ticle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement		
1.	Statement			
	Novelty (N)	Claims	4-6	YES
		Claims	1-3, 9, 10	NO
	Inventive step (IS)	Claims	4-6	YES
		Claims	1-3, 9, 10	_ NO
	Industrial applicability (IA)	Claims	1-3	YES
		Claims		_ NO

- 2. Citations and explanations (Rule 70.7)
 - V.1 The documents are numbered according to their sequence in the search report (D1-D12). Unless indicated otherwise, reference is made to the passages cited in the search report.
 - V.2 Documents D1 and D2 disclose the use of dipyridamole for treating cardiovascular diseases such as stroke, angina pectoris and myocardial infarction.

D3 indicates that various inhibitors of blood platelet aggregation (such as ibuprofen, sulphinpyrazone and dipyridamole) reduce the risk of stroke, myocardial infarction and arterial occlusive disease.

D4 concerns the use of indomethacin for the treatment or prophylaxis of angina pectoris or myocardial infarction.

D5 reports on the cardiovascular effects of trequinsin.

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
D6 concerns the use of MRP5 inhibitors such as				
	probenecid, sildenafil and zaprinast for			
	increasing the level of cyclic nucleotides and			
	therefore for treating angina pectoris or coronary			
	diseases.			
	D7 reports on the effect of MK571 following			
	myocardial infarction.			
	The subject matter of claims 1 to 3, 9 and 10 thus lacks novelty (PCT Article 33(2)).			
	The applicant should note that the discovery of a new active mechanism of a compound in treating a disease does not make already known therapeutic applications novel.			
V.3	The subject matter of claims 4-6 is considered to be novel and to involve an inventive step, since none of the cited documents discloses such a screening method.			
V.4	The PCT Contracting States do not have uniform criteria for assessing the industrial applicability of claims 4-6, 9 and 10 in their present form. Patentability may also depend on			
	the wording of the claims.			

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Boxes I and III

Box I

Basis of the report

I.1 The amendments submitted with the letter of 31 October 2005 introduce substantive matter which, contrary to PCT Article 34(2)(b), goes beyond the disclosure in the international application as filed. The amendments concerned relate to the amended claim 1.

In the opinion of this Authority, a negative limitation or disclaimer with no basis in the application as filed is permissible only in order to establish novelty in relation to accidental anticipation (see the PCT Guidelines, Appendix to chapter 20, A20.21[2]).

I.2 The current substantive examination is carried out as if claim 1 did not contain a disclaimer.

Box III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

III.1 Claims 4-6, 9 and 10 relate to subject matter which, in the opinion of this Authority, falls under PCT Rule 67.1(iv). Consequently, no expert opinion has been established in respect of the

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Supplemental Box

industrial applicability of the subject matter of said claims (PCT Article 34(4)(a)(i)).

III.2 Claims 7 and 8 do not meet the requirement for clarity (PCT Article 6), since they contain a combination of two different, disparate method claims.

There are two types of method claim: a) the use of an object to achieve a technical effect, and b) a method for producing a product. Part of claim 8 relates to a method of the first type, (a), and the second part to a method of the second type, (b). The part "method for producing a pharmaceutical composition" is based on the desired "effect" of the identification method, instead of introducing a specific starting material and producing a specific product.

The problem to be solved by claim 8 is that of producing a composition for treating cardiovascular diseases. The claim does not contain the technical features which are essential for solving that problem (the identities of the substances are missing). A person skilled in the art cannot define the claimed subject matter, since the substances cover potentially unlimited structural possibilities.

As a result, claims 7 and 8 fail to meet the requirement for clarity (PCT Article 6).